PATENT COOPERATION TREA

From the

INTERNATIONAL PRELIMINARY EXAMINING

To:

LEE, Young-Pil

The Cheonghwa Building, 1571-18 Seocho-dong, Seocho-gu, 137-874 Seoul, Republic of Korea



PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year) 20 JANUARY 2005 (20.01.2005)

Applicant's or agent's file reference SH-18951-PCT

PCT/KR2003/001949

International application No.

International filing date (day/month/year)

Priority date (day/months/year)

IMPORTANT NOTIFICATION

24 SEPTEMBER 2003 (24.09.2003)

26 SEPTEMBER 2002 (26.09.2002)

Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

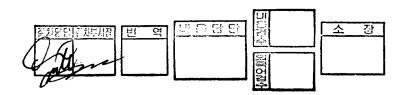
- 1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report(but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.



Name and mailing address of the IPEA/KR

Ko 92 Re

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5131





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference		SeeNotification	onofTransmittalofInternation	onalPreliminary	
SH-18951-PCT					
International application No.	International filing date(day/mo	nth/year)	Priority date (day/month	/year)	
PCT/KR2003/001949	24 SEPTEMBER 2003		26 SEPTEMBER 2002	(26.09.2002)	
International Patent Classification (IPC) IPC7 G11B 5/62 Applicant SAMSUNG ELECTRONICS 1. This international preliminary ex and is transmitted to the applicant 2. This REPORT consists of a total This report is also accompanded and are the basis in	CO., LTD. et al amination report has been preparactoring to Article 36.	red by this Inter	national Preliminary Exam eet. n, claims and/or drawings	nining Authority which have been	
These annexes consist of a total ofsheets.					
3. This report contains indications relating to the following items: I X Basis of the report					
Date of submission of the demand	Date	of completion of	this report		
29 MARCH 2004 (2	29.03.2004)	18 JANUARY	7 2005 (18.01.2005)		
Name and mailing address of the IPEA/ Korean Intellectual Propert 920 Dunsan-dong, Seo-gu, Republic of Korea	y Office	orized officer KIM, Yong Woo	ong	(3) C (3)	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

nternational aplication No.

PCT/KR2003/001949

I.	Basis	of the report					
1.	With	regard to the elements of the international application:*	,				
	X	the international application as originally filed					
		the description:					
		pagespages	, as originally filed , filed with the demand				
		pages, filed with the letter of	, med with the demand				
		the claims:					
	Ш	pages	, as originally filed				
		pages, as amended (together with any					
		pages, filed with the letter of	, med with the demand				
		the drawings:					
		pages	, as originally filed				
		pages	, filed with the demand				
		pages, filed with the letter of	 				
	ш	the sequence listing part of the description: pages	, as originally filed				
		pages	, filed with the demand				
		pagespages					
2.							
		the language of a translation furnished for the purposes of international search (under Rule 23.	1(b)).				
		the language of publication of the international application(under Rule 48.3(b)).					
		the language of the translation furnished for the purposes of international preliminary examinor 55.3).	nation(under Rules 55.2 and/				
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained inthe international application in written form.					
		filed together with the international application in computer readable form.	4				
		furnished subsequently to this Authority in written form.					
	\Box	furnished subsequently to this Authority in computer readable form					
	The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applicationas as filed has been furinshed.						
		The statement that the information recorded in computer readable form is identical to the w been furnished.	rritten sequence listing has				
4.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets					
5.		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	they have been considered to				
*	in thi	ncement sheets which have been furnished to the receiving Office in response to an invitation und s opinion as "originally filed." and are not annexed to this report since they do not contain 10.17).					
**	Any i	replacement sheet contàining such amendments must be referred to under item l and annexed to	this report.				

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.
PCT/KR2003/001949

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

YES
N0
YES
NO
YES
NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: US 2002-0154596 A1 (Wei-Chin Hsu et al.) 24 Oct. 2002

1. Novelty and Inventive Step

The subject matter of Claims 1-5 of the present invention discloses a high density recording medium with a super-resolution near-field structure including a sequential stack of the second dielectric layer, a recording layer, a protective layer, a mask layer; the first dielectric layer and a polycarbonate layer, wherein the mask layer comprises high melting point metal oxide or silicon oxide.

D1 describes a super-resolution recordable optical disk forming sequentially on the substrate under a dielectric layer, a mask layer, an interface layer, an organic dye layer, an isolation layer and a protection layer.

The subject matter of the present invention and that of the prior art document D1 are considered to be similar in that both of them relate to a structure of a recording medium using a super-resolution near-field structure. However, D1 does not include the mask layer comprising high melting point metal oxide or silicon oxide to generate a near field by optically or thermally inducing physical changes in the crystal-line structure, which gives a clear indication of an improvement in a high-density recording medium.

Therefore, the subject matter of the claims 1-5 of the present invention seems to be novel, and considered to involve an inventive step(PCT Article 33(2)-(3)).

2. Industrial Applicability

Claims 1-5 of the present invention meet the criteria set out in PCT Article 33(4) because they are directed to a high density recording medium. Therefore, the invention is considered to be industrially applicable.